ANNUAL REPORT

1985 - 1986

MANITOBA HEALTH RESEARCH COUNCIL

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MEMBERS OF THE MANITOBA HEALTH RESEARCH COUNCIL

Dr. Lyonel G. Israels*, Chairman
- Executive Director, Manitoba Cancer Treatment and Research Foundation.

Dr. J. Foerster*
- Professor and Head, Department of Medicine, St. Boniface General Hospital.

Dr. K.R. Hughes*
- Dean of Graduate Studies, University of Manitoba.

Dr. A. Kristjanson*
- Professor of Sociology, University of Manitoba.

Dr. H. Glass
- Professor of Nursing, University of Manitoba.

Dr. M.I. Hussain
- General Surgeon, Selkirk, Manitoba.

Dr. J.P. Maclean
- Director of Nuclear Medicine, St. Boniface General Hospital.

Dr. A. Naimark** (until November 30, 1985)
- President, University of Manitoba.

Dr. A. Ronald (starting September 11, 1985)
- Head,Department of Medicine, Health Sciences Centre.

Ms. K. Scherer (starting September 11, 1985)
- Assistant Director, Research & Planning Directorate, Manitoba Department of Health.

Mr. R.K. Siddall (until December 1, 1985)
- Vice President and Secretary, The Great West Life Assurance Company.

Dr. G. Sisler (starting April 4, 1986)
- Professor of Psychiatry, University of Manitoba.

Prof. M. Vaisey-Genser (starting December 1, 1985)**
- Associate Vice-President (Research) University of Manitoba.

Dr. J.G. Wade**
- Dean of Medicine, University of Manitoba.

Members of the Manitoba Health Research Council (Continued)

* Members of the Executive and Finance Committee
** Appointed by the University of Manitoba

COUNCIL SECRETARIAT

Executive Director - Dr. Frits C. Stevens

Administrative Secretary - Lorraine Morley

REPORT OF THE CHAIRMAN

The 1985 reference list of Health Sciences Research in Manitoba as compiled by Council indicates that for the 1985 calendar year 17.2 million dollars was expended on health research in the province, of which 74% came from outside Manitoba. Funds provided by the Manitoba Health Research Council accounted for 7.5% of total funds as compared to 10.5% in 1984 and 5.4% in 1983.

For fiscal 1985/86, the base funding from the Manitoba Department of Health remained unchanged for the third year at $787,000. Lottery revenues increased by 15% to $816,034 to provide a total sum of $1,660,789. This increased revenue and a retrenchment in the grants and awards program allowed Council to eliminate last years deficit of $205,615. Council was able to award six scholarships, three establishment grants, six post-doctoral fellowships, seventeen graduate studentships, four summer studentships and thirty operating grants. The success rates in the different categories range from 16% for postdoctoral fellowships to 31% for operating grants. These percentages are an index of the high cutoff levels imposed in order to stay within existing revenues.

In the five years that the Manitoba Health Research Council has been in existence it has made a significant impact on the development of health research in the Province. It has preferentially directed its resources to the development of a cadre of young investigators and providing seed funding for new projects. It is particularly pleasing that the Council

scholarship and establishment grants program, designed to attract bright, young, independent researchers to the Province has been successful. Since the establishment of this program in 1983, seven individuals have held Manitoba Health Research Council Scholarship Awards. All are still active in research in the Province and they hold on average, operating grants amounting to approximately $70,000 per annum obtained from a variety of national and local agencies. Of these seven, two are continuing Council scholars, three have gone on to become scholars of the Medical Research Council of Canada, one to become a Canadian Heart Scholar and one is a full time Faculty member of the Department of Medicine at the University of Manitoba. This record constitutes an excellent endorsement for the success of this program.

Council's audited Financial Statement and lists of the Scientific Review Committees and the Grants and Awards for 1985 and 1986 are detailed in the remainder of the report.

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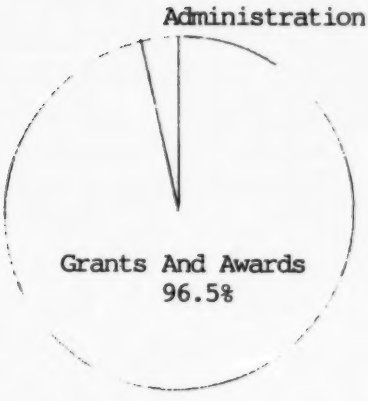
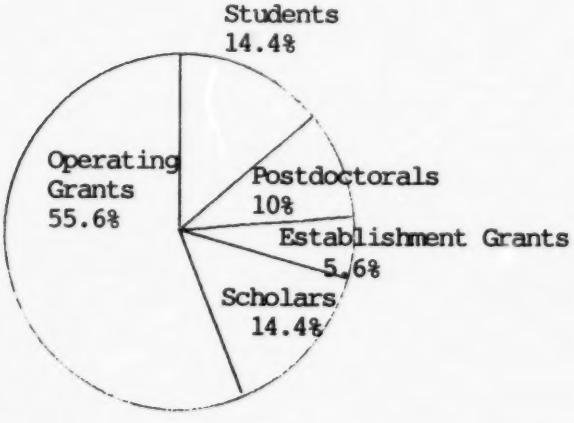
FISCAL OVERVIEW 1985-86

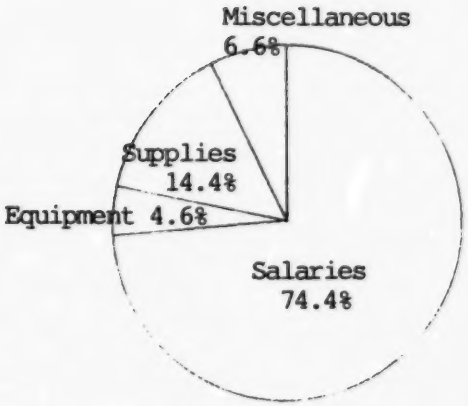
TOTAL EXPENDITURES
$ 1,298,372



GRANTS AND AWARDS
$ 1,253,419



ADMINISTRATION
$ 44,953



Manitoba

THE MANITOBA HEALTH RESEARCH COUNCIL

REPORT OF THE PROVINCIAL AUDITOR'S OFFICE

We have examined the financial statements, being Exhibits A and B and Schedule 1, of The Manitoba Health Research Council for the fiscal year ended March 31, 1986. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of the Council as at March 31, 1986 and the results of its operations for the year then ended in accordance with the accounting policies stated in note 3 to the financial statements applied, on a basis consistent with that of the preceding year.

J. W. Singleton, C.A.,
Assistant Provincial Auditor.

June 12, 1986,
Winnipeg, Manitoba.

Exhibit A

THE MANITOBA HEALTH RESEARCH COUNCIL

Balance Sheet
as at March 31, 1986
(with 1985 figures for comparison)

	1986	1985
ASSETS		
Cash	$ 266,931	$ 40,134
Grant receivable from The Manitoba Lotteries Foundation	127,116	161,910
Grant receivable from the Government of the Province of Manitoba	-	102,364
Accrued interest	2,388	1,051
	$ 396,435	$ 305,459
LIABILITIES AND UNEXPENDED FUNDS		
Accounts payable	$ 3,574	$ 3,494
Research grants payable	280,059	507,580
Unexpended funds (deficit), Exhibit B	112,802	(205,615)
	$ 396,435	$ 305,459

Approved on behalf of the Council:

DIRECTOR

DIRECTOR

The accompanying notes are an integral part of the financial statements.

Exhibit B

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of Revenues and Expenditures and Unexpended Funds for the year ended March 31, 1986 (with 1985 figures for comparison)

	1986	1985
Revenues:		
Grant from the Government of the Province of Manitoba	$ 787,000	$ 787,000
Grant from The Manitoba Lotteries Foundation	816,034	708,952
Returned grant funds	6,388	18,848
Bank interest	7,367	1,945
	1,616,789	1,516,745
Expenditures:		
Research grants (Note 3(b)):		
University of Manitoba on behalf of grantees	1,187,519	1,653,158
University of Winnipeg on behalf of grantees	15,300	-
Manitoba Cancer Treatment and Research Foundation on behalf of grantees	34,000	-
Brandon University on behalf of grantees	12,000	-
St. Boniface Hospital on behalf of grantees	4,600	-
	1,253,419	1,653,158
Administration expenses, Schedule 1	44,953	51,202
	1,298,372	1,704,360
Revenues over (under) expenditures	318,417	(187,615)
Balance of unexpended funds(deficit), beginning of year	(205,615)	(18,000)
Balance of unexpended funds(deficit), end of year, Exhibit A	$ 112,802	$ (205,615)

The accompanying notes are an integral part of the financial statements.

Schedule 1

THE MANITOBA HEALTH RESEARCH COUNCIL

Administration Expenses
for the year ended March 31, 1986
(with 1985 figures for comparison)

	1986	1985
Accounting and audit	$ 1,150	$ 875
Bank charges	28	50
Council and committee expenses	544	405
Insurance	100	75
Office equipment (Note 3(a))	2,066	8,255
Symposium	1000	-
Postage and delivery	756	1,236
Printing and stationery	4,861	4,236
Salaries and benefits	33,464	35,739
Telephone	346	331
Travel	638	-
Total administration expenses, Exhibit B	$ 44,953	$ 51,202

The accompanying notes are an integral part of the financial statements.

THE MANITOBA HEALTH RESEARCH COUNCIL

Notes to the Financial Statements
for the year ended March 31, 1986

1. INCORPORATION AND FUNCTION

The Manitoba Health Research Council was established by an Act of the Legislature, being Chapter 31, The Manitoba Health Research Council Act, which came into force effective August 15, 1982. The Council was established to promote and assist basic, clinical and applied research in the health sciences in Manitoba and advise the Minister in respect of such matters relating to health research as the Minister may refer to the Council for its consideration.

2. CHARITABLE STATUS

The Manitoba Health Research Council is a registered charity within the meaning of the Income Tax Act.

3. SIGNIFICANT ACCOUNTING POLICIES

(a) An accrual basis of accounting is used except for office equipment purchases, which are charged to expenditures in the year of acquisition.

(b) Research grants are charged to expenditures when funding is approved by the Council.

OPERATING & EQUIPMENT GRANTS

A. SCIENTIFIC REVIEW COMMITTEE

Dr. J. Hamerton (Chairman), Department of Human Genetics,
University of Manitoba.

Dr. J. Arnett, Department of Psychiatry,
Health Sciences Centre.

Dr. F. Baldwin, Department of Pathology,
University of Manitoba.

Dr. D. Bose, Department of Pharmacology,
University of Manitoba.

Dr. P. Choy, Department of Biochemistry,
University of Manitoba.

Dr. H. Duckworth, Department of Chemistry,
University of Manitoba.

Dr. W. Eaton, Department of Psychology,
University of Manitoba.

Dr. N. Fleming, Department of Oral Biology,
University of Manitoba.

Dr. F. Kisil, Department of Immunology,
University of Manitoba.

Dr. B. Light, Department of Medicine,
St. Boniface General Hospital.

Dr. P.C. Loewen, Department of Microbiology,
University of Manitoba.

Dr. R. Matusik, Department of Physiology,
University of Manitoba.

Dr. L. Oppenheimer, Department of Surgery,
Health Sciences Centre.

Dr. C. Pinsky, Department of Pharmacology,
University of Manitoba.

Dr. L.L. Roos, Department of Administrative Studies,
University of Manitoba.

Dr. K. Simons, Faculty of Pharmacy,
University of Manitoba.

Scientific Review Committee (Continued)

Ms. R. Tamblyn, Nursing Division,
St. Boniface General Hospital.

Dr. G. Tomlinson, Department of Chemistry,
University of Winnipeg.

Dr. J. Winter, Department of Pediatrics,
University of Manitoba.

B. LIST OF OPERATING GRANTS

Investigator(s), Department, Institution. Project Title.	Award Amount
ANDERSON, W.A., Anatomy, Univ. of Manitoba. An Immunohistochemical and Morphological Examination of Putative Analgesic Pathways.	$ 9,786*
BOSE, D., Pharmacology, Univ. of Manitoba. An Improved Screening Test for Malignant Hyperthermia.	34,500
BOWDEN, G.H.W. and HAMILTON, I.R., Oral Biology, Univ. of Manitoba. Changes in Metabolic Activity and Antigenic Structure of Oral Bacteroides Growing in Anaerobic Continuous Culture.	34,000
BRUNHAM, R.C., Medical Microbiology, Univ. of Manitoba. Role of C. trachomatis Infection in Ectopic Pregnancy.	24,300
CHOY, P.C., Biochemistry, Univ. of Manitoba. Lysophospholipid Metabolism During Cardiac Arrhythmias in the Canine Heart.	31,200
DAKSHINAMURTI, K., Biochemistry, Univ. of Manitoba. Studies on Enzymes of Biotin Metabolism and Biotin Transport.	29,400
DAVIE, J.R., Biochemistry, Univ. of Manitoba. Structural Analysis of Protamine Gene Chromatin in Developing Trout Testis.	20,000
DODD, J.G., Physiology, Univ. of Manitoba. Development of Antibody for a Prostate-Specific Protein.	35,000
EATON, W.O., Psychology, Univ. of Manitoba. Postnatal Correlates of Individual Differences in Fetal Movement.	6,900

B. List of Operating Grants (Continued)

FAIMAN, C., Medicine, Univ. of Manitoba. Gonadotropin Regulation in the Fetus - Hypothalamic and Gonadal Influences.	$ 13,500
GLAVIN, G.B. and GEIGER, J.D., Pharmacology, Univ. of Manitoba. Mechanisms Underlying Adenosine-Induced Protection Against Stress Pathology in Rats.	28,000
GREENBERG, A.H. and WRIGHT, J.A., Cell Biology Institute, Health Sciences Ctr. The Genetic Processes that Contribute To Tumor Heterogeneity and Metastasis.	30,000
KIM, R-S.S., Pharmacology, Univ. of Manitoba. Chemical and Biological Characterization of Endogeneous Calcium Ionophores with Cardiac Action.	25,000
KREDENSTER, J.V. and McCOSHEN, J.A., Obstetrics & Gynecology, Health Sciences Ctr. Definition of Adverse Effect on Fertility Associated with the Use of Salazopyrine for Treatment of Inflammatory Bowel Disease.	30,000
LAM, H-Y.P. and BOSE, R., Pharmacology, Univ. of Manitoba. Mechanism of Multidrug Resistance in Murine Leukemia Cells: the Role of Sodium Ion.	39,900
LOUIE, T.J., Medical Microbiology, Univ. of Manitoba. Evaluation of Factors Promoting or Inhibiting Production of Vitamin K_2 (menaquinones) in Intestinal Bacteria.	24,500
LOVERIDGE, B.M., Physical Therapy, Univ. of Manitoba. Breathing Pattern Analysis in Cervical Spinal Cord Injured Patients.	11,000
MAN, R.Y.K., Pharmacology, Univ. of Manitoba. Calcium and Lysophospholipid-induced Electrophysiological and Biochemical Alterations in Isolated Myocytes.	21,800
McCREA, D.A. and JORDAN, L.M., Physiology, Univ. of Manitoba. Electronics Technician for Construction of Electrophysiological Equipment.	20,000
NAGY, J.I., Physiology, Univ. of Manitoba. Neuroanatomy of Adenosine Deaminase-Containing Neurons in the Rat CNS.	28,500
ONG, B.Y., Anesthesia, Health Sciences Ctr. Regulation of Neonatal Cerebral Blood Flow.	17,300

B. List of Operating Grants (Continued)

PARASKEVAS, F., Cell Biology Institute, Health Sciences Ctr. Antisuppression: A Novel Immunoregulatory Pathway.	$ 40,000
RAY, M., Clinical Genetics, Health Sciences Ctr. Chromosome Analyses from Chorionic Villi and Fetal Samples in the First Trimester of Elected Termination of Pregnancy.	17,600
ROOS, L.L. and LYTTLE, D., Social & Prev. Med., Univ. of Manitoba. Centralization and Accessibility: Knee Replacement Surgery in Manitoba.	18,200
ROOS, N.P. and KREPART, G.V., Social & Prev. Med., Univ. of Manitoba. A Population Based Study of Cervical Screening in Manitoba.	9,072*
SCHACTER, B.A., Cell Biology Institute, Health Sciences Ctr. Investigation of the Effects of Murphy-Sturm Lymphosarcoma on Hepatic Microsomal Electron Transport System Function, Oxidative Drug Metabolism and Heme Catabolism in Rats.	34,000
SHEFCHYK, S.J., Physiology, Univ. of Manitoba. Central Nervous System Mechanisms Involved in the Control of Micturition.	12,200
TOMLINSON, G., Chemistry, Univ. of Winnipeg. Effects of Metal Ions on Synaptic Proteins.	15,300
TURNER, G.A., Nephrology/Medicine, St. Boniface Hospital. Parenteral Nutrition During Hemodialysis.	4,600
WALKER, J.L., Psychology, Brandon University. Assessing Stress Among Manitoba Farmers: Development of the Farming Stress Inventory.	12,000
	$ 697,629

* Awards reduced because the project was subsequently funded by another agency.

PERSONNEL AWARDS

A. SCIENTIFIC REVIEW COMMITTEE

Dr. N.R. Anthonisen (Chairman), Department of Internal Medicine, University of Manitoba.

Dr. I. Adamson, Department of Pathology, University of Manitoba.

Dr. C. Becker, Maternal-Child Health Care, Department of Health, Province of Manitoba.

Dr. I. Bihler, Department of Pharmacology, University of Manitoba.

Dr. B. Bolster, Department of Psychology, University of Winnipeg.

Dr. D.N. Burton, Department of Microbiology, University of Manitoba.

Dr. N. Chappell, Centre on Aging, University of Manitoba.

Dr. D. Chow, Medical Research, Cell Biology Institute, Manitoba Cancer Treatment & Research Foundation.

Dr. W. Dahlgren, Faculty of Physical Education, University of Manitoba.

Dr. C. Dowse, Department of Oral Biology, University of Manitoba.

Dr. C. Faiman, Internal Medicine, Health Sciences Centre.

Dr. E.A. Kroeger, Department of Physiology, University of Manitoba.

Dr. P. McAlpine, Department of Human Genetics, University of Manitoba.

Dr. H. Rigatto, Department of Pediatrics, Health Sciences Centre.

Dr. G. Wiseman, Department of Medical Microbiology, University of Manitoba.

B. LIST OF PERSONNEL AWARDS

SCHOLARSHIP AWARD RENEWALS

DODD, J.C., Physiology, Univ. of Manitoba. Cloning and Characterization of Genes Expressed by the Human Prostate.	30,000
GEIGER, J.D., Pharmacology, Univ. of Manitoba. Neurochemical Studies of Adenosine as a Putative Transmitter in the CNS.	30,000
MINK, S.N., Medicine, Univ. of Manitoba. Factors Affecting Wave-Speed Limit on Expiratory Flow.	30,000
	$ 90,000

SCHOLARSHIP AWARDS

ANDERSON, W.A., Anatomy, Univ. of Manitoba. An Immunohistochemical and Morphological Examination of Putative Analgesic Pathways.	$ 30,000
DUCAS, J., Medicine, Univ. of Manitoba. Effects of Resistive Load on Ventricular Function.	30,000
SMYTH, D.D., Pharmacology, Univ. of Manitoba. Renal a-Adrenoceptors and Sodium Excretion in Genetically Hypertensive Rats.	30,000
	$ 90,000

ESTABLISHMENT GRANTS

ANDERSON, W.A., Anatomy, Univ. of Manitoba. An Immunohistochemical and Morphological Examination of Putative Analgesic Pathways.	$ 20,000
DUCAS, J., Medicine, Univ. of Manitoba. Effects of Resistive Load on Ventricular Function.	25,000
SMYTH, D.D., Pharmacology, Univ. of Manitoba. Renal a-Adrenoceptors and Sodium Excretion in Genetically Hypersensitive Rats.	25,000
	$ 70,000

POSTDOCTORAL FELLOWSHIP AWARDS

Fellow, Department, Institution, Project or Field of Research, (Supervisor).	Award Amount
DEMBINSKI, T.C., Physiology, Univ. of Manitoba. Recombinant DNA/Gene Cloning. (R.P.C. Shiu)	21,420
MURPHY, P.R., Physiology, Univ. of Manitoba. Physiology. (H.G. Friesen)	20,160
NUKINA, I., Pharmacology, Univ. of Manitoba. Neuropharmacology, Neurochemistry. (F.S. LaBella)	21,420
ROYLE, N.J., Human Genetics, Univ. of Manitoba. Recombinant DNA/Somatic Cell Genetics. (J.L. Hamerton)	21,420
SENBA, E., Physiology, Univ. of Manitoba. Neuroanatomy. (J.I. Nagy)	21,420
WALKER, A.C., Physiology, Univ. of Manitoba. Physiology. (H.G. Friesen)	20,160
	$ 126,000

STUDENTSHIP AWARDS

Student, Department, Institution, Project or Field of Research. (Supervisor)	Award Amount
ALLESLEV, L.J., Human Genetics, Univ. of Manitoba. Human Genetics. (P.J. McAlpine)	$ 9,870
ANDERSON, J.E., Anatomy, Univ. of Manitoba. Endocrinology and Steroiogenesis of the Diabetic Pituitary-Gonadal Axis in the Male Rat. (J.A. Thliveris)	9,870
BENNETT, R.D., Immunology, Univ. of Manitoba. Tumor Immunology. (D.A. Chow)	9,870
CHAN, B.M-C., Immunology, Univ. of Manitoba. Immunology. (A. Froese)	9,870
FELDKIRCHER, K.M., Psychology, Univ. of Manitoba. Developmental Psychobiology. (L.M. Wilson)	9,870
HOCHMAN, S., Physiology, Univ. of Manitoba. Neurophysiology. (D.A. McCrea)	9,870
KANDRACK, M-A., Sociology, Univ. of Manitoba. Sociology of Health Care. (A. Segall)	9,870
KEHLER, J.P., Physiology, Univ. of Manitoba. Neurophysiology. (D. McCrea)	9,870
KRIELLAARS, D.J., Physiology, Univ. of Manitoba. Neurophysiology. (L.M. Jordan)	9,870
LI, Z.-G., Pharmacology, Univ. of Manitoba. Neuropharmacology. (F.S. LaBella)	9,870
McMILLAN, E.M., Pathology, Univ. of Manitoba. Lung Development - Experimental Pathology. (I.Y.R. Adamson)	9,870
MEYER, N.E., Psychology, Univ. of Manitoba. Clinical Psychology, Behavioral Specialization. (D. Dyck)	9,870
NICKEL, B.E., Biochemistry, Univ. of Manitoba. Biochemistry. (J.R. Davie)	9,870
SEOW, C.Y., Physiology, Univ. of Manitoba. The Biophysics of Smooth Muscle Contraction: Mechanics. (N.L. Stephens)	9,870

Studentship Awards (Continued)

SPEARMAN, M.A., Chemistry, Univ. of Manitoba. Biochemistry of Glycoproitein Biosynthesis in Concanavalin A Resistant Myogenesis Defective Rat L6 Myoblasts. (J.C. Jamieson)	$ 9,870
STRANC, L.C., Human Genetics, Univ. of Manitoba. Human Genetics. (J.A. Evans)	9,870
WIENTZEK, M., Biochemistry, Univ. of Manitoba. Lipid Metabolism in Mammalian Organs. (P.C. Choy)	9,870
	$ 167,790

SUMMER STUDENTSHIP RENEWALS

GALBRAITH, P.F., Pharmacology & Therapeutics, Univ. of Manitoba. Neuropharmacology. (C. Pinsky)	$ 3,000
SUD, A., Pharmacology & Therapeutics, Univ. of Manitoba. Pharmacology and Therapeutics. (I. Bihler)	3,000
	$ 6,000

NEW SUMMER STUDENTSHIPS

HRABARCHUK, B., Physiology, Univ. of Manitoba. Oncogene Expression in Prostatic Hyperplasia and Cancer. (R.J. Matusik)	$ 3,000
MALLICK, B.A., Pharmacology, Univ. of Manitoba. Pharmacology. (D. Bose & B.Y. Ong)	3,000
	$ 6,000